

A row of navigation icons typically found in LaTeX Beamer presentations, including symbols for back, forward, search, and other slide controls.

- L7: (107) 6 and (LNB or "low noise block")
- L8: (64) 7 and (LO or "local oscillator")
- L9: (9) 8 and (frequency adj convert\$3)
- L10: (1) 9 and "voltage regulator"
- L11: (47) "voltage regulator" and (LNB or "low noise block")
- L12: (26) 11 and (LO or "local oscillator")
- L13: (4) 12 and (frequency adj convert\$3)
- L14: (4) 13 and power
- L15: (4) 11 and ((multi or plurality) near3 "voltage regulator")
- L16: (3) 15 and "DC voltage"
- L18: (1) 17 and (frequency adj convert\$3)
- L17: (2) 16 and (LO or "local oscillator")
- L19: (1) 17 and "high potential node"
- L20: (2) 15 and (IF or "intermediate frequency")
- L21: (2158) 455/127.1 455/127.2 455/127.5 455/130 455/141 455/183.2 455/189.1 455/190.1 455/190.2 455/190.3 455/190.4 455/190.5 455/190.6 455/190.7 455/190.8 455/190.9 455/191.0 455/191.1 455/191.2 455/191.3 455/191.4 455/191.5 455/191.6 455/191.7 455/191.8 455/191.9 455/192.0 455/192.1 455/192.2 455/192.3 455/192.4 455/192.5 455/192.6 455/192.7 455/192.8 455/192.9 455/193.0 455/193.1 455/193.2 455/193.3 455/193.4 455/193.5 455/193.6 455/193.7 455/193.8 455/193.9 455/194.0 455/194.1 455/194.2 455/194.3 455/194.4 455/194.5 455/194.6 455/194.7 455/194.8 455/194.9 455/195.0 455/195.1 455/195.2 455/195.3 455/195.4 455/195.5 455/195.6 455/195.7 455/195.8 455/195.9 455/196.0 455/196.1 455/196.2 455/196.3 455/196.4 455/196.5 455/196.6 455/196.7 455/196.8 455/196.9 455/197.0 455/197.1 455/197.2 455/197.3 455/197.4 455/197.5 455/197.6 455/197.7 455/197.8 455/197.9 455/198.0 455/198.1 455/198.2 455/198.3 455/198.4 455/198.5 455/198.6 455/198.7 455/198.8 455/198.9 455/199.0 455/199.1 455/199.2 455/199.3 455/199.4 455/199.5 455/199.6 455/199.7 455/199.8 455/199.9 455/200.0 455/200.1 455/200.2 455/200.3 455/200.4 455/200.5 455/200.6 455/200.7 455/200.8 455/200.9 455/201.0 455/201.1 455/201.2 455/201.3 455/201.4 455/201.5 455/201.6 455/201.7 455/201.8 455/201.9 455/202.0 455/202.1 455/202.2 455/202.3 455/202.4 455/202.5 455/202.6 455/202.7 455/202.8 455/202.9 455/203.0 455/203.1 455/203.2 455/203.3 455/203.4 455/203.5 455/203.6 455/203.7 455/203.8 455/203.9 455/204.0 455/204.1 455/204.2 455/204.3 455/204.4 455/204.5 455/204.6 455/204.7 455/204.8 455/204.9 455/205.0 455/205.1 455/205.2 455/205.3 455/205.4 455/205.5 455/205.6 455/205.7 455/205.8 455/205.9 455/206.0 455/206.1 455/206.2 455/206.3 455/206.4 455/206.5 455/206.6 455/206.7 455/206.8 455/206.9 455/207.0 455/207.1 455/207.2 455/207.3 455/207.4 455/207.5 455/207.6 455/207.7 455/207.8 455/207.9 455/208.0 455/208.1 455/208.2 455/208.3 455/208.4 455/208.5 455/208.6 455/208.7 455/208.8 455/208.9 455/209.0 455/209.1 455/209.2 455/209.3 455/209.4 455/209.5 455/209.6 455/209.7 455/209.8 455/209.9 455/210.0 455/210.1 455/210.2 455/210.3 455/210.4 455/210.5 455/210.6 455/210.7 455/210.8 455/210.9 455/211.0 455/211.1 455/211.2 455/211.3 455/211.4 455/211.5 455/211.6 455/211.7 455/211.8 455/211.9 455/212.0 455/212.1 455/212.2 455/212.3 455/212.4 455/212.5 455/212.6 455/212.7 455/212.8 455/212.9 455/213.0 455/213.1 455/213.2 455/213.3 455/213.4 455/213.5 455/213.6 455/213.7 455/213.8 455/213.9 455/214.0 455/214.1 455/214.2 455/214.3 455/214.4 455/214.5 455/214.6 455/214.7 455/214.8 455/214.9 455/215.0 455/215.1 455/215.2 455/215.3 455/215.4 455/215.5 455/215.6 455/215.7 455/215.8 455/215.9 455/216.0 455/216.1 455/216.2 455/216.3 455/216.4 455/216.5 455/216.6 455/216.7 455/216.8 455/216.9 455/217.0 455/217.1 455/217.2 455/217.3 455/217.4 455/217.5 455/217.6 455/217.7 455/217.8 455/217.9 455/218.0 455/218.1 455/218.2 455/218.3 455/218.4 455/218.5 455/218.6 455/218.7 455/218.8 455/218.9 455/219.0 455/219.1 455/219.2 455/219.3 455/219.4 455/219.5 455/219.6 455/219.7 455/219.8 455/219.9 455/220.0 455/220.1 455/220.2 455/220.3 455/220.4 455/220.5 455/220.6 455/220.7 455/220.8 455/220.9 455/221.0 455/221.1 455/221.2 455/221.3 455/221.4 455/221.5 455/221.6 455/221.7 455/221.8 455/221.9 455/222.0 455/222.1 455/222.2 455/222.3 455/222.4 455/222.5 455/222.6 455/222.7 455/222.8 455/222.9 455/223.0 455/223.1 455/223.2 455/223.3 455/223.4 455/223.5 455/223.6 455/223.7 455/223.8 455/223.9 455/224.0 455/224.1 455/224.2 455/224.3 455/224.4 455/224.5 455/224.6 455/224.7 455/224.8 455/224.9 455/225.0 455/225.1 455/225.2 455/225.3 455/225.4 455/225.5 455/225.6 455/225.7 455/225.8 455/225.9 455/226.0 455/226.1 455/226.2 455/226.3 455/226.4 455/226.5 455/226.6 455/226.7 455/

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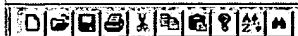
Q8s | ☐ US-PGPUB; ☒ Plurals

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24 and "high potential node".clm.

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- L1: (7330) 455/127.1 455/127.2 455/127.5 455/130 455/141 455/183.2 455/183.3
- L2: (101) 1 and (LNB or "low noise block")
- L3: (60) 2 and (LO or "local oscillator")
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United States
Patent Application Publication (Pub. No.: US 2004/0192190 A1)
Motoyama (Pub. Date: Sep. 24, 2004)

(71) LOW NOISE BLOCK DOWN CONVERTER
WITH REDUCED POWER CONSUMPTION

Int. Cl. H03M 1/00 (2006.01)
U.S. Cl. 455/133 (2002.10)

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(73) Assignee: Sharp Kabushiki Kaisha, Osaka (JP)

(21) Appl. No.: 10/766017

(22) Filed: Jun. 25, 2004

(30) Foreign Application Priority Data

Mar. 25, 2003 (JP) 2003-061117

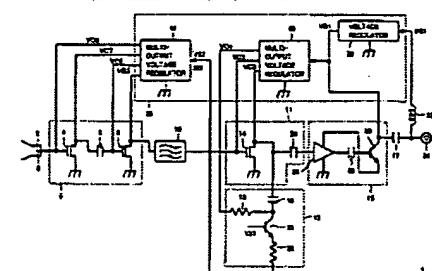
Publication Classification

(51) Int. Cl. H03M 1/00 (2006.01)

(52) U.S. Cl. 455/133 (2002.10)

(57) ABSTRACT

A power supply circuit of a low noise block down converter (LNB) includes a plurality of output voltage regulators. A first output voltage regulator, a local oscillator circuit, a second output voltage regulator, and an LNA are connected in series in a direction in which a power supply current flows. Therefore, a voltage adjustment value of the output voltage regulator can be reduced and a power loss can be reduced. A value of current flowing in the power supply circuit can also be reduced. Accordingly, an LNB with a reduced power consumption can be realized.



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1	<input type="checkbox"/>	<input type="checkbox"/>	US 20040192190 A1	20040930	34	Low noise block down converter with reduced power	455/3.02	455/133		Motoyama, Koji	<input checked="" type="checkbox"/>

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16 and (LO or "local oscillator")

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1	<input type="checkbox"/>	<input type="checkbox"/>	US 20040192190 A1	20040930	34	Low noise block down converter with reduced power	455/3.02	455/133		Motoyana, Koji	<input checked="" type="checkbox"/>
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13 and power

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2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6832071 B1	20041214	31	Satellite broadcast reception system capable of connection	455/3.02	342/362; 370/326;		Nakamura, Makio et al.
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6600730 B1	20030729	12	System for distribution of satellite signals from separate	370/343	370/480; 455/12.1;		Davis, Robert W. et al.
4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6134282 A	20001017	14	Method for lowpass filter calibration in a satellite receiv	375/350	455/266		Ben-Efraim; Nadav et al.

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-L10: (1) 9 and "voltage regulator"

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455/183.2 455/189.1 455/209 455/251.1
455/255-260 455/264-265 455/278.1 455/286
455/318 455/334 455/340 455/343.1 455/342.2
455/343.5 455/63.1 455/67.11 455/67.13 455/76
455/574

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